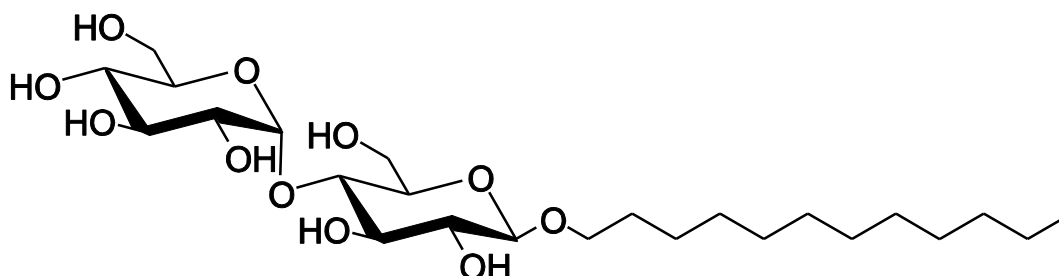


## Research Certificate of Analysis

n-dodecyl- $\beta$ -D-maltoside (DDM)  
n-dodecyl- $\beta$ -D-maltopyranoside

Molecular Weight: 510.615  
Molecular Formula: C<sub>24</sub>H<sub>46</sub>O<sub>11</sub>  
Storage: -20°C  
Shelf Life (Unopened): 1 Year  
Physical Form: Powder  
Lot Number: DDM-15



## Product Specifications

Test	Limits	Results
Mass Spec	Consistent with Structure	Consistent with Structure
Proton NMR	Consistent with Structure	Consistent with Structure
TLC Analysis	>99%	>99%
Ninhydrin	Negative	Negative
Iodine	One Spot	One Spot
Phosphorus	Negative	Negative
Char	Positive	Positive

**Signed:** Electronically Signed By QC  
**Release Date:** March 20, 2014